

Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcom Robert C. Millonig Donald J. Featherstone Timothy J. Shea, Daylarky Michael V. Messinger Judish U. Kim

Patrick E. Garrett
Jeffrey T. Helvey
Heidi L. Kraus
Eldora L. Ellison
Thomas C. Fiala
Albert L. Ferro\*
Donald R. Banowit
Peter A. Jackman
Teresa U. Medler
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Virgil Lee Beaston
Theodore A. Wood
Elizabeth J. Haanes
Joseph S. Ostroff
Frank R. Cottingham
Christine M. Lhulier
Rae Lynn P. Guest

George S. Bardmesser Daniel A. Klein Jason D. Eisenberg Michael D. Specht Andrea J. Kamage Tracy L. Muller Jon E. Wright LuAnne M. DeSantis Ann E. Summerfield Aric W. Ledford Helene C. Carlson Cynthia M. Bouchez Timothy A. Doyle\* Gaby L. Longsworth Lori A. Gordon Nicole D. Dretar Ted J. Ebersole Jyoti C. Iyer Laura A. Vogel Michael J. Mancuso Bryan S. Wade Aaron L. Schwartz Michael G. Penn\* Shannon A. Carroll\* Wesley W. Jones\* Matthew E. Kelley\* Nicole R. Kramer\*

Registered Patent Agents
Karen R. Markowicz
Nancy J. Leith
Matthew J. Dowd
Katrina Yujian Pei Quach
Bryan L. Skelton
Robert A. Schwartzman
Teresa A. Colella
Leffrey S. Lundgren
Victoria S. Rutherford

Michelle K. Holoubek Simon J. Elliott Julie A. Heider Mita Mukherjee Scott M. Woodhouse Christopher J. Walsh Liliana Di Nola-Baron Peter A. Socarras Jeffrey Mills

Of Counse! Kenneth C. Bass III Evan R. Smith Marvin C. Guthrie

\*Admitted only in Maryland \*Admitted only in Virginia •Practice Limited to Federal Agencies

April 18, 2005

WRITER'S DIRECT NUMBER: (202) 772-8587 INTERNET ADDRESS: PGARRETT@SKGF.COM

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 09/476,093; Filed: January 3, 2000

For:

Aliasing Communication System and Method with Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the

Family Radio Service (as amended)

Inventors:

SORRELLS et al.

Our Ref:

1744.0260001

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Credit Card Payment Form (PTO-2038);
- 2. Fee Transmittal Form (PTO/SB/17);
- 3. Sixth Supplemental Information Disclosure Statement;
- 4. Three (3) sheets of Form PTO-1449 listing twenty-two (22) documents; and
- 5. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f202.371.2540: www.skgf.com

Commissioner for Patents April 18, 2005 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

PEG/mlb Enclosures

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Equivalent to Form PTO/SB/17 (12-04)

Approved for use through 07/31/2006. U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Pap no persons are required to respond to a collection of information unless it displays a valid OMB control number

Effective on	Complete if Known						
Fees pursuant to the AFQUORAL Propriations Act, 2005 (H.R. 4818).			Application Numb	ber	09/476,093		
FEE TRANSMITTAL			Filing Date		January 3, 2000		
For FY 2005			First Named Inve	entor	SORRELLS et al.		
Applicant claims small entity	etatus See 37 CED 1 1	27	Examiner Name		Chow, Charles Chiang		
			Art Unit		2685		
TOTAL AMOUNT OF PAYMENT	(\$) 180.00		Attorney Docket	No.	1744.02600	01	
METHOD OF PAYMENT (che	ck all that apply)						
Check X Credit Card	Money Order	Nor	ne Other (pl	ease id	entify):		
X Deposit Account Deposit A	Account Number: 1	9-0036	Deposit Acc	count N	ame: <u>Sterne,</u> l	Kessler, Gold	lstein & Fox P.L.L.C
For the above-identified de	posit account, the Direc	tor is he	reby authorized to:	(check	all that appl	y)	
Charge fee(s) indica	ted below		Charge	fee(s)	) indicated be	elow, <b>except</b>	for the filing fee
under 37 CFR 1.16			ZE Ground	•	erpayments	<b>.</b>	
WARNING: Information on this form r information and authorization on PTC		it card in	formation should no	t be inc	ouded on this	torm. Provid	e credit card
FEE CALCULATION							
1. BASIC FILING, SEARCH, A		FEES					
FIL	ING FEES Small Entity	SEAF	RCH FEES	EXA	MINATION Small E		
Application Type Fee		Fee (\$	Small Entity Fee (\$)	Fee	Small E (\$) Fee (		Fees Paid (\$)
Utility 300	0 150	500	250	20	0 100	_	
Design 200	0 100	100	50	13	0 65	_	
Plant 200	0 100	300	150	16	0 80	_	
Reissue 300	0 150	500	250	60	0 300	_	
Provisional 200	0 100	0	0	(	0 0	_	
2. EXCESS CLAIM FEES							Small Enti
Fee Description Each claim over 20 or, for Reis	ssues each claim ove	т 20 an	d more than in th	e oria	inal patent		Fee (\$) Fee (\$) 25
Each independent claim over 3						ginal patent	
Multiple dependent claims	,						360 180
	Claims Fee (\$)	<u>Fee</u>	Paid (\$)		ple Depende		(#)
- 20 or HP = HP = highest number of total claims p		. =		<u>Fe</u>	ee (\$)	Fee Paid	( <del>5</del> )
Indep. Claims Extra C	Claims Fee (\$)	Fee	Paid (\$)	_			
3 or HP = x = HP = highest number of independent claims paid for, if greater than 3							
3. APPLICATION SIZE FEE							
If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity)							
for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)							
Total Sheets							
4. OTHER FEE(S)  Fees Paid (\$)							
Non-English Specification, \$130 fee (no small entity discount)							
Other: Information Disclosure Statement 180.00							
	A						<u></u>
SUBMITTED BY Signature	Laund		Registration No.	•	.005	Telephone	(202) 271 2/00
- CWA-	Mamost	l	(Attorney/Agent)	39	9,987		(202) 371-2600
Name (Print/Type) Patrick E. Ga	rrett					Date 4/	18/05

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



In re application of:

Confirmation No.: 7306

SORRELLS et al.

Art Unit: 2685

Appl. No.: 09/476,093

Examiner: Chow, Charles Chiang

Filed: January 3, 2000

Atty. Docket: 1744.0260001

For:

**Aliasing Communication System** and Method with Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service (as

amended)

## Sixth Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Sixth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fifth Supplemental Information Disclosure Statement filed on November 16, 2004 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

00000077 09476093

180.00 OP

04/20/2005 HALI11 01 FC:1806

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AF63, AC64, AI64, and AI65 are co-owned patents which are directed to related subject matter.

Documents AF63 and AA65-AH65 were cited in an Office Action in related U.S. Patent Application No. 09/855,851, filed May 16, 2001, entitled "Apparatus, System, and Method for Down-Converting and Up-Converting Electromagnetic Signals," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,465,415, 6,049,706, 6,061,551, 6,580,902, and 6,687,493, all of which have already been cited in the present application.

Documents AG63 and AH63 were cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Document AI63 was cited in a Notice of Allowance in related U.S. Patent Application No. 10/197,441, filed July 18, 2002, entitled "Method and System for Frequency Up-Conversation With a Variety of Transmitter Configurations," directed to related subject matter.

Document AA64 was cited in an Office Action in related U.S. Patent Application No. 10/086,250, filed March 4, 2002, entitled "Applications of Universal Frequency Translation," directed to related subject matter.

Document AB64 was cited in an Office Action in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,982,315, which has already been cited in the present application.

Document AD64 was cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Method and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter.

Documents AE64-AH64 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/770,675, filed January 29, 2001, entitled "Wireless and Wired Cable Modern Applications of Universal Frequency Translation Technology," directed to related subject matter.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this
Information Disclosure Statement was cited in a communication from a foreign
patent office in a counterpart application and this communication was not
received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty
days prior to the filing of this information disclosure statement.

- 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
  - b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable

inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

∴ C. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. §

1.17(p).

- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee.
  Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$\_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
  - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
  - b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § Atty. Docket: 1744.0260001

1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

<u></u> 5.	The document(s) was/were cited in a search report by a foreign patent office in a
	counterpart foreign application. Submission of an English language version of
	the search report that indicates the degree of relevance found by the foreign office
	is provided in satisfaction of the requirement for a concise explanation of
	relevance. 1138 OG 37, 38.
<u></u> 6.	A concise explanation of the relevance of the non-English language document(s) appears below in accordance with 37 C.F.R. § 1.98(a)(3).
⊠ 7.	In accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted.
8.	Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C.
	§ 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
9.	It is expected that the examiner will review the prosecution and cited art in the
	parent application no(s) in accordance with MPEP 2001.06(b), and
	indicate in the next communication from the office that the art cited in the earlier
	prosecution history has been reviewed in connection with the present application

- 7 -

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

Date:

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

(202) 371-2600

372277 1.DOC

APR 1 8 2005

**FORM PTO-1449** 

## SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY, DOCKET NO.	APPLICATION NO.
1744.0260001	09/476,093
INVENTORS	
SORRELLS et al.	
FILING DATE	ART UNIT

INFORMATION DISCLOSURE STATEMENT			<u>MENT</u>	FILING DATE January 3, 2000  ART UNIT 2685				
			U.S. PAT	ENT DOCUMENTS				
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA							
_	АВ							
	AC							
	AD							
	AE							
	AF63	6,813,485 B2	11/2004	Sorrells et al.				
	AG63	5,410,270	04/1995	Rybicki <i>et al</i> .				
	AH63	6,509,777 B2	01/2003	Razavi et al.				
	Al63	5,982,329	11/1999	Pittman et al.				
		<u> </u>	FOREIGN P	ATENT DOCUMENTS	<b>l</b>	1	<u> </u>	
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	AJ						Yes No	
	AK						Yes No	
	AL						Yes No	
	AM						Yes No	
		OTHER DOCUMENT	S (Including	Author, Title, Date, Pe	rtinent Pages,	etc.)		
EXAMINER INITIAL	DOC. REF.		•	CITATION				
	AN							
	AO							
	АР							
	AQ							
	AR							
EXAMINER	_]				DATE CO	NSIDERED	<del></del>	

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

372273\_1.DOC

Γ		<u> </u>	رقع				Page 2 of 3			
	F	FORM PTO-1449	PR 1 8 7005	ATTY. DOCKET NO. 1744.0260001		ICATION NO				
	SIXTI	LI OLIDDI EMENTAL		INVENTORS		0,000				
<u>INFOI</u>	RMATION	I DISCLOSURE STATE		SORRELLS et al. FILING DATE	ART	UNIT				
				January 3, 2000 ENT DOCUMENTS	2685					
EXAMINER INITIAL	DOC.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE			
THE THE	AA64	6,208,636 B1	03/2001	Tawil et al.		-				
	AB64	3,614,630	10/1971	Rorden						
	AC64	6,836,650 B2	12/2004	Sorrells et al.						
	AD64	5,844,868	12/1998	Takahashi <i>et al</i> .						
	AE64	6,385,439 B1	05/2002	Hellberg						
	AF64	6,741,139 B2	05/2004	Pleasant et al.						
	AG64	6,823,178 B2	11/2004	Pleasant et al.						
	AH64	6,850,742 B2	02/2005	Fayyaz						
	Al64	6,853,690 B1	02/2005	Sorrells et al.						
EXAMINER	DOC.		1	ATENT DOCUMENT		0.10 0.400				
INITIAL	REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION Yes			
	AK						No Yes			
	AL						No Yes			
	AM						No Yes			
	1/11/1	OTHER DOCUMENTS	 	Author Title Date	Pertinent Pages	etc )	No			
EXAMINER INITIAL	DOC. REF.									
	AN									
	AO									
,, , , =										
	AP									
				· · · ·			<u>-</u>			
	AQ									
	AR									
	AR									
EXAMINER	<u> </u>	L=	-		DATE CO	NSIDERED				
		ence considered, whether or de copy of this form with next			609. Draw line throug	h citation if not i	n conformance			
372273_1.DO		20 50p) of this form with flex	Communication	то друговит.						

FORM PTO-1449

Page 3 of 3 ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093

**INVENTORS** SIXTH SUPPLEMENTAL SORRELLS et al. INFORMATION DISCLOSURE STATEMENT ART UNIT **FILING DATE** 2685 January 3, 2000 **U.S. PATENT DOCUMENTS EXAMINER** DOC. DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE INITIAL REF. 4,789,837 12/1988 Ridgers AA65 **AB65** 5,634,207 05/1997 Yamaji et al. 06/1997 Sevenhans et al. AC65 5,642,071 AD65 6,211,718 B1 04/2001 Souetinov 04/2001 AE65 6,212,369 B1 Avasarala 10/2001 Souetinov et al. AF65 6,308,058 B1 AG65 6,633,194 B2 10/2003 Arnborg et al. 2001/0036818 A1 11/2001 Dobrovolny **AH65** AI65 6,873,836 B1 03/2005 Sorrells et al. **FOREIGN PATENT DOCUMENTS EXAMINER** DOC. DATE COUNTRY CLASS SUB-CLASS **TRANSLATION** DOCUMENT NUMBER INITIAL REF. Yes ΑJ No Yes ΑK No Yes AL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DOC. CITATION INITIAL REF. AN AO AP AQ AR

**EXAMINER** DATE CONSIDERED

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.